

Agricultural Department.

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TRANSMITTER'S NOTICE—All communications intended for this department should be addressed to J. P. STELLE, Fort Worth, Tex.

The Sugar Beet for Texas.

A good deal has already appeared in THE GAZETTE with reference to an existing reasonable probability that the culture of sugar beets and the manufacture of beet sugar might be made a decidedly profitable industry for Texas. Since the publication of those articles we have been carefully following away for use in a future article all obtainable information bearing on the sugar beet and beet sugar industry, and the present time, when a new interest appears to be awakening with reference to the matter, we are glad to have a recently published call at the hands of our efficient commissioner of immigration for information on the subject, would seem to be an auspicious time for working up a rehash of what we have been able to collect.

Senator W. D. Washburn of Minnesota, who has been making a very careful study of the beet sugar industry as at present existing within the United States, reports that the extensive manufacture of beet sugar in America may be counted upon as but just begun. Already enough is known to show most conclusively that this manufacture is not only wholly feasible, but that it is becoming an industry of such gigantic proportions as are now little dreamed of by our people.

The most careful investigation has left him fully convinced that the success of the beet sugar industry is established for this country beyond any reasonable question. The prospects are entirely as bright as one could hope for them to be. In his recent visit to Grand Island, Neb., he made a thorough examination of the great plant there. It represents half a million of capital. Mr. Oxnard, who is one of the largest sugar refiners on our continent, told him there existed no doubt whatever but that so soon as showing as was already made, a great deal of capital would be forthcoming at the word to establish the industry in all regions capable of making the sugar beet as fair a success as it is made in Nebraska.

Present indications, he says, would put it that the American sugar beet is beginning in Minnesota, extends southward over the two Dakotas, across Nebraska and thence downward—how far downward is as yet undetermined. In all this great belt of beets for the manufacture of sugar can be successfully grown, and the analyses so far made show that there is in them a greater percentage of saccharine matter than in the best product of either Germany or Austria. There the amount is from 12 to 14, while the beets of this belt show up to from 15 to 16. They have been using at the Grand Island factory this fall 350 tons of beets daily and turning out 60,000 pounds of first-class sugar.

Mr. Washburn says the Nebraska farmers are finding beet production very profitable. The factory pays them \$3 per ton for the beets containing 12 per cent of saccharine matter, with 25 cents added for each additional per cent. As the per cent of saccharine matter depends a great deal upon the care taken in raising the beets, it may be seen that there is a marked incentive to the farmer to pay much attention to the matter of cultivation. A low average for beets is twelve and a half tons to the acre.

The running time of the Grand Island factory is about four months in each year, but since it runs night and day through that time the running season is equivalent to eight months. There has been some experimenting with silos, storing the beets for manufacture the year round, but it has proven a very expensive method.

At a late meeting of the Minneapolis, Minn., chamber of commerce Mr. F. L. Whitney submitted a map showing the American sugar beet belt extending from Minnesota and reaching southward, covering all the "plains" east of the Rocky mountain range and extending west, with more or less break, to the Pacific coast. It represented that almost anywhere within this belt beets could be successfully produced, yielding from 10 to 20 per cent of saccharine matter. In his opinion the territory embraced within this belt might be made to produce beets enough to supply the whole world with sugar. President Noyes of the chamber of commerce said the report was a most important one, as interesting our whole country, and he desired to impress the matter upon the minds of the people upon the consideration of every person living within the great beet belt.

Of course it is unnecessary for us to state that these reports spread the American sugar beet belt over Northern Texas in general and the Panhandle of Texas in particular. As the sugar beet is something of a warm-country crop, the probability exists that the further south we come on the beet belt the better it will do. Then, there is another thing to consider that certainly stands greatly in our favor: the time for running a beet-sugar factory could be made much longer in Texas than in Nebraska, on account of greater length of season here. The crop could be put in with its utmost a month earlier than it could be put in by the Nebraska people, and it could remain in the ground almost a month later than there, thus giving us an advantage of almost two months. If it should be true, as some writers claim, that the beet must be kept in the ground for "trips," so called, to prevent loss in saccharine matter, we could easily arrange for that in a way that would enable us to cover the entire season by starting our crop "in succession"—a given acreage now, a given acreage two or three weeks later, and so on, to lengthen out the harvest period to latest days. The arrangement would keep the mills running through from four to five months, and would, furthermore, be of important advantage to the grower, as it would prevent the whole rush of his work coming on at the same time.

It is not reasonable to suppose that the last-mentioned matters will be confronted by a reference to past beet-sugar failures in California. Those failures could not figure in the case, as it has been clearly proven that they were purely due to negligent mismanagement. California is well aware of this fact, and our people make no attempt at concealing it. As an evidence of the faith that is in the California people, as far as relates to that particular matter, California is now investing millions of money with a view to the re-establishment of her beet-sugar industry. The Salinas (Cal.) Weekly Index says "there is nothing whatever in the matter with the beet in that country." The whole trouble sprang from want of proper organization on the part of producers, and want of capital on the part of manufacturers.

But extensive mills are now being put up in suitable localities. It is only necessary to provide sufficient capital to erect suitable works, and to understand how to manufacture sugar in the most economical way, to make the thing a general success. Of course it must be presumed that our farmers will not in hearty co-operation with our factories, and that they will fully realize the great importance and benefit it is to them to have a beet-sugar factory located in their immediate vicinity; and that they take hold of beet raising in a friendly spirit of rivalry and see who can raise the best beets for sugar. With sufficient capital to erect suitable sugar works, and with sufficient interest in furnishing a full supply of good beets, there can be no such thing as a failure of the beet-sugar industry in California.

In addition to the foregoing we have a bulletin on the same subject prepared by the Salinas City Board of Trade which says: "Machinery for a great California beet-sugar factory has just arrived from Germany. An estimate for this season's operations, of course. Almost every county in the state is clamoring for a beet-sugar factory. The whole country seems to be aroused on the subject of sugar-beet culture. Orders for seed have been received from as far east as Ohio. So strong has been the run for sugar beet seed that there is now more seed in California to let out than is estimated that fully 2500 acres will be planted to sugar beets in the vicinity of Westville for the coming season. Last (this) season there were only 1000 acres planted. An immense acreage will be planted to beets in other localities. This year the factories, owing to limited supply, will have only about a run of forty days, but the outlook at present would seem to promise them a run of three months for next year."

So, you see, the California failures, so much pointed to by persons disposed to discourage the beet-sugar industry, are not at all discouraged the California farmers.

All the regions of the so-called sugar-beet belt are rousing themselves. Utah is into it, and the Daily Tribune of Salt Lake City "hopes that Mr. Stayer will succeed in establishing his farm and his beet-sugar factory, and make a complete success of the business. It would be a great thing for Utah if all the sugar beets in this territory could be manufactured here. It would save sending away a great many tens of thousands of dollars annually." The Statesman of Boise City, Idaho, says: "The interest felt in the cultivation of the sugar beet in this section shows no abatement, as the season advanced. It is a matter of experience in beet culture know that the soil and climate of the Boise and other valleys of Southern Idaho are well adapted to this industry. There is no doubt about the very large yield per acre in beet roots, and especially in sugar beets, which grow to the largest size of any beet raised through two or three generations in this country, say third year seed. It takes about three years to bring about proper naturalization to our peculiar conditions. The Grand Island people are fully down to this conviction, and Rev. George W. Chaffant tells us, through the Nebraska Farmer, that the variety of sugar beet found among those now being worked up at the Grand Island, Neb., sugar factory is the 'Sea Beets.' The original seed appears to have been obtained from Holland, and Mr. Chaffant says the variety seems to improve with every additional year of its culture here. It is certainly necessary for us to state in this connection that the sugar beets belong to varieties differing widely from the ordinary beets of our garden culture. They are usually of a whitish or yellowish color, and under treatment with that end in view may be grown to enormous size. We once raised a sugar beet that weighed 100 pounds. All that these large beets are not the kind wanted by the sugar manufacturer—he wants a comparatively small and long beet. The large and overgrown beet is always comparatively poor in saccharine principles.

In preparing the land for sugar beets it should be deeply worked, and if clay land, made loose and friable, and if the soil is not rich enough to grow the crop, a manure must be added, as this seems to damage the saccharine qualities of the product. The sugar beet appears to require a naturally rich soil—rich enough to produce it without the addition of fertilizers other than plain vegetable matter to prevent burning. The uniform small size of the product is secured by planting close.

As stated on a former occasion, we are satisfied that Texas has every requirement for the successful culture of sugar beets. The crop would get the full advantage of our regular rains early in the season. These would develop it to sufficient size of roots to entirely fit the popular demand. After this size has been attained a dry season to follow is best for the crop, as it prevents second growth it develops a higher percentage of saccharine matter. The same rule holds good with all root crops—the sweet potato is always sweeter after lying while in an inactive state than it is while growing.

It is certainly gratifying to us to learn that our people are interesting themselves in this sugar beet question. It is really so that there is a great sugar belt in this country, and that we are in it, we ought to be hustling with a view to getting for ourselves out of it all there is for us. And on this account we hope all Texans who may have happened to test sugar beets will at once send samples to Geo. H. A. Cameron, commissioner of immigration, Fort Worth, Tex., as per his request already printed in THE GAZETTE. Those interested in

the progress of Texas who have not as yet made such tests should procure a few seeds and make the tests next year. Mr. Cameron says small packages of German seeds can be obtained through your congressman at Washington, free, of course, and larger quantities through the same source at actual cost. This is, perhaps, the best you can do in the way of seeds. While American seeds might be the better, it is not at all certain that they, acclimated to some other locality, would be any better for Texas. The probability is that for very best results Texans will have to acclimate their seeds to Texas, and if so, German seed would stand a fair chance of being as good to start with as would seed from any other region.

In our own mind we are fully satisfied as to how all well-made tests will pan out. If properly conducted they will prove the sugar beet to be an entire success with us, and following close upon the heels of this proof will come the great beet sugar mills. And in this connection we might suggest it as a good plan for those who are in concert by the citizens of a particular locality, for it is but reasonable to suppose that the localities first to make a really good showing will be the first to get the big sugar mills. A sugar mill costing half a million dollars or more, and taking at good figures the agricultural products of a region will be no less a thing for that particular region to have. The matter is certainly one well worth looking after for our farmers' organizations. Say ten members of some Alliance should next year each cultivate one-fourth of an acre to sugar beets—that concerted experiments of their might secure one of the big sugar mills. But even if it does not happen there could still be no loss to the experimenter, for those sugar beets make a first-class stock feed.

On Judging Wool. The Town and Country Journal of Australia says comparatively few people know how to judge a sheep with a view to finding out the quality of wool it produces. The finest and softest wool is laid on the shoulders, hence an expert at judging sheep invariably looks at the wool on the shoulders first. Here he establishes his standard for the fleece. Of course the wool of other portions of the animal will not be so good, and if it comes out to be so, the standard the fleece can be pronounced upon as "very even," which is an important requirement. Next scrutinize the length of the staple, and if found that the wool on the ribs, thigh, and back approximates reasonably in length to that of the standard, the decision may be made that the wool is also "even as to length." Density of the fleece is next to be looked after, which is done by closing the hand upon a portion of the rump and loin wool, these points being usually the thinnest and most faulty. If this again gives satisfaction, the wool is pronounced "even as to density." This all together makes up the correct basis for the wooler, if the wool approaches in fineness to the shoulder standard, and is nearly of equal length on shoulder, rib and back, and nearly of equal density on shoulders and across the loins, the sheep may be pronounced upon as "a perfect wool producer in its grade."

"The Battle of the Breeds." One often hears this expression nowadays in its reference to the cattle interests, but it really carries no correct meaning. There is no battle of the breeds, but there is a battle of the breeders, due to wholesome competition, which is all right. One breeder makes a specialty of a certain breed of fine cattle, and it is entirely right and proper for him to make the most possible out of his business. With this end in view he represents his representations are correct, so far as relates to the purposes to which a man desires to apply his stock. There are many men of many minds—and many purposes—and therefore we have need of many breeds of cattle to fill the general demand. In our opinion Texas (or any other cattle region) that doubts his representations are correct, so far as relates to the purposes to which a man desires to apply his stock. 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